Amendments to the Claims are as follows:

1. (Currently Amended) A method for one-piece injection moulding of a soft needle catheter used together with an introducer needle comprising a hub ~~(3)~~ and a tube-shaped flexible part ~~(4)~~, comprising the steps of:

feeding a molten polymer into a mould comprising a core ~~(9)~~ defining a cavity ~~composed of~~ comprising a hub cavity and a tube-shaped cavity, said core having a cone-shaped part and a cylindrical part ~~(5)~~ forming the interior of the catheter;

removing the core from the catheter ~~when the polymer has been sufficiently cured for the core to be removed~~; and

removing the catheter from the mould ~~when the polymer has been sufficiently cured to be removed~~;

~~characterized in using a core (9)~~ wherein the cone-shaped part of the core forms at least a part of the hub cavity and extends into the tube-shaped cavity causing the interior of the tube-shaped flexible part ~~(4)~~ to be at least partially cone shaped.

2. (Original) A method according to claim 1, wherein the catheter is cured to its final state in the mould.

3. (Currently Amended) A method according to claim 1 ~~or 2~~, wherein the molten polymer is supplied to the mould via at least two inlets ~~preferably the inlets are placed symmetrically around the axis of the core~~.

4. (Currently Amended) A method according to ~~any one of claims 1 to 3~~ claim 1, wherein the inlets are placed at the hub ~~(3)~~ forming part of the mould.

5. (Currently Amended) A method according to ~~any one of claims 1 to 4~~ claim 1, wherein the mould separates along the axis of the tube-shaped part ~~(4)~~.

6. (Currently Amended) A method according to ~~any one of claims 1 to 4~~ claim 1, wherein the mould separates perpendicular to the tube-shaped part ~~(4)~~ and at or just below the hub ~~(3)~~.

7. (Currently Amended) A method according to ~~any one of claims 1 to 6~~ claim 1, wherein the polymer is chosen from polyester ethers, ECDEL, styrene based TPE, olefin based TPE, urethane based TPE, ester based TPE, amid based TPE polyolefines and silicone rubbers.

8. Cancelled.

9. (Currently Amended) A method according to ~~any one of claims 1 to 8~~ claim 1, wherein the polymer has a shore between 40 and 60D.

10. (Currently Amended) A method according to ~~any one of claims 1 to 9~~ claim 1, wherein ~~more than one~~ a plurality of polymers are used ~~is used in the method~~.

11. (Currently Amended) A soft needle catheter used together with an introducer needle comprising a hub ~~(3)~~ and a tube-shaped flexible part ~~(4)~~ having a first end and a second end, the hub and the tube-shape flexible part being in one piece and being connected at the first end of the tube-shaped flexible part, ~~characterized in that~~ wherein the interior of the tube-shaped part ~~has both~~ includes a cone-shaped part and a cylindrical part ~~(5)~~, the cylindrical part being placed at the second end of the tube-shaped flexible part.

12. (Currently Amended) A soft needle catheter according to claim 11, wherein the hub ~~(3)~~ is fitted with means for assisting the

removal of the catheter from the patient~~, preferably in form a flap, a rim or a groove~~.

13. (Currently Amended) A soft needle catheter according to ~~any one of claims 11 or 12~~ claim 11, wherein the hub ~~(3)~~ is fitted with at least one carving~~, preferably two carvings placed opposing each other~~.

14. (Currently Amended) A soft needle catheter according to ~~any one of claims 11 to 13~~ claim 11, wherein the hub ~~(3)~~ has means for sealing the hub to a drug delivery device, said means being provided on the outside of the hub ~~in form of~~ wherein said means is selected from the group consisting of: at least one ~~round going~~ packing, rim ~~or~~ fin ~~or~~ and ~~by having~~ a hub with a cone shaped exterior having a size suitable to fit into a cone shaped cavity of a drug delivery device.

15. (Currently Amended) A soft needle catheter according to ~~any one of claims 11 to 14~~ claim 11, wherein the tube-shaped part ~~(4)~~ of the soft needle catheter has a ratio between the cylindrical part ~~(5)~~ and the cone-shaped part in the range from 10:1 to 1:40~~, preferably the range is from 5:1 to 1:30, more preferably the range is from 2:1 to 1:20 and most preferably from 1:1 to 1:15~~.

16. (Currently Amended) A soft needle catheter according to ~~any one of claims 11 to 15~~ claim 11, wherein the cylindrical part ~~(5)~~ is 1.5 mm long.

17. (Currently Amended) A soft needle catheter according to ~~any one of claims 11 to 16~~ claim 11, wherein the cylindrical part ~~(5)~~ is rounded.

18. (Currently Amended) A soft needle catheter according to ~~any one of claims 11 to 17~~ claim 11, wherein the polymer is chosen from polyester ethers, ECDEL, styrene based TPE, olefin based

TPE, urethane based TPE, ester based TPE, amid based TPE polyolifines and silicone rubbers.

19. Cancelled.

20. (Currently Amended) A soft needle catheter according to ~~any one of claims 11 to 19~~ claim 11, wherein the catheter ~~is composed from more than one polymer~~ comprises a plurality of polymers.

21. (Currently Amended) A mould for producing a soft needle catheter to be used together with an introducer needle according to claim 11 comprising a hub cavity, a tube-shaped cavity and a core ~~(9)~~ having a cone-shaped part of the core ~~extends~~ extending into the tube-shaped cavity.

22. Cancelled.

23. (New) The method of claim 3, wherein the inlets are placed symmetrically around the axis of the core.

24. (New) The soft needle catheter of claim 12, wherein the means is selected from a flap, a rim or a groove.

25. (New) The soft needle catheter of claim 13, wherein the hub comprises two carvings placed opposing each other.

26. (New) The soft needle catheter of claim 11, wherein the tube-shaped part of the soft needle catheter has a ratio between the cylindrical part and the cone-shaped part in the range from 5:1 to 1:30,

27. (New) The soft needle catheter of claim 11, wherein the tube-shaped part of the soft needle catheter has a ratio between the cylindrical part and the cone-shaped part in the range from 2:1 to 1:20.

28. (New) The soft needle catheter of claim 11, wherein the tube-shaped part of the soft needle catheter has a ratio between the cylindrical part and the cone-shaped part in the range from 1:1 to 1:15.